

1. Contract City of Logan Date March 6, 1962  
 2. City and State Logan, Iowa Driller Harvey Meisel  
 3. Well No. 1 A at test hole No. \_\_\_\_\_ Well location (attach map) 20' south of well #1.

4. Work completed March 6, 1962 No of man hours as charged to job on time sheet \_\_\_\_\_

5. MATERIAL:

	LENGTH	DIA.	GAUGE OR WALL THICKNESS	MATERIAL	TYPE	NO. OF OPENINGS
6. Screen	<u>10</u>	<u>10"</u>	<u>3/16"</u>	<u>stainless steel</u>	<u>Layne shutter</u>	<u>5</u>
7. Inner Casing	_____	_____	_____	_____	_____	_____
8. Outer Casing	<u>48</u>	<u>10"</u>	<u>.365"</u>	<u>Black P.E. steel pipe welded</u>	_____	<u>--</u>

9. 20 tons of gravel used in the well. Size Half & half road and concrete mix

10. Test of well. Did you use test or permanent pump? permanent 8" 4  
Size of Bowl Stages

11. Size of orifice 4 inch by 3 inch. Orifice tube reading \_\_\_\_\_ inches.

12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL
<u>11:00</u>	<u>260</u>	<u>20</u>	<u>10</u>	<u>30</u>
<u>11:30</u>	<u>260</u>	<u>20</u>	<u>12</u>	<u>32</u>
<u>12:00</u>	<u>260</u>	<u>20</u>	<u>13</u>	<u>33</u>
<u>12:30</u>	<u>260</u>	<u>20</u>	<u>14</u>	<u>34</u>
<u>1:00</u>	<u>260</u>	<u>20</u>	<u>14</u>	<u>34</u>
<u>2:00</u>	<u>260</u>	<u>20</u>	<u>14</u>	<u>34</u>
<u>3:00</u>	<u>260</u>	<u>20</u>	<u>14</u>	<u>34</u>

13. Recovery in 5 minutes \_\_\_\_\_, in 30 minutes Full

14. Did you seal bottom of well? yes Thickness 3/16 inches, material stainless steel

15. Well underreamed? From \_\_\_\_\_ feet to \_\_\_\_\_ feet, \_\_\_\_\_ feet to \_\_\_\_\_ feet.

16. If all screen was not placed at bottom, state how it was spaced.  
 From \_\_\_\_\_ feet to \_\_\_\_\_ feet; from \_\_\_\_\_ feet to \_\_\_\_\_ feet; from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

17. Depth of well from ground level to top of plug 57' Size of drilled hole 30"

18. Was cement placed around or between any of the casings? Yes

19. If so, state where, how much and method used. From ground level to 10' below ground level

CONTRACT..... **City of Logan** ..... Well No. **1 A** .....

Log of well from ground level:

Feet	to	Feet	Formation
0	to	4	Yellow clay fill
4	to	10	Yellow clay with organic material
10	to	32	Blue clay
32	to	37	Blue clay with boulders
37	to	46	Blue sand & gravel with wood & shells
46	to	50	Sand & gravel buff color
50	to	57	Sand & coarse gravel with boulders
57	to		Limestone
	to		
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